

Commonwealth of Kentucky
Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

Reviewed by: Ralph Gosney, P.E.

GENERAL INFORMATION:

Name:	BPB Manufacturing, Inc.
Address:	6040 U.S. Highway 42 East Carrollton, Kentucky 41008
Date application received:	March 4, 2004
SIC/Source description:	3275/ Gypsum products manufacturing source
Source I. D. No.:	21-041-00040
Source AI No.:	698
Activity No.:	APE20040001
Permit number:	V-05-077

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input checked="" type="checkbox"/> Operating
<input checked="" type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants)

EMISSIONS SUMMARY⁽¹⁾:

Pollutant	Actual (tpy) ⁽²⁾	Potential (tpy)
PM ³	132.80	132.80
PM ₁₀ ³	125.24	125.24
SO ₂	0.87	0.87
NO _x	101.51	101.51
VOC	23.64	23.64
CO	121.70	121.70
Individual HAP >10 tpy (by CAS)	NA	NA
Total HAPs > 25 tpy	NA	NA

Notes:

- (1) Please refer to the detailed emission calculations (Pages 1 through 5).
- (2) There is no prior actual emissions inventory for this source, therefore actual emissions are equated to potential controlled emissions.
- (3) PM/ PM₁₀ emissions for the fluid bed stucco cooler (EP H) have been included in the emissions summary above. However, the fluid bed stucco cooler has not been in operation since July of 2001.

Source Process Description:

BPB Manufacturing, Inc. operates a synthetic gypsum wallboard forming facility in Carrollton, Kentucky (Kentucky Plant I. D. Number 021-041-00040). The facility, which commenced operation in September 2000, produces wallboard from synthetic gypsum (calcium sulfate dihydrate [CaSO₄•2H₂O]). Wet gypsum is a beneficial by-product of flue-gas desulfurization systems. The Carrollton facility receives wet gypsum as a raw material. The wet gypsum is first dried in a dryer and then sent to a kettle calciner. The resulting stucco is then mixed with various additives and foaming agents to form a paste. This paste is sandwiched between paper coating and the mixture is “dried” to remove excess water and to recrystallize into gypsum. The boards are then trimmed, marked and stacked.

During this review, the following new emission units have been approved for incorporation into this renewed Title V operating permit (TVOP):

- (a) One (1) 20,000 gallon diesel fuel storage tank and three (3) pump distribution island. The permittee requested on February 28, 2001 that this storage tank be approved as an insignificant activity at this plant. The potential emissions are less than the relevant thresholds specified at 401 KAR 52:020, Section 6 and the requested tank is included in Section C of the permit.
- (b) One (1) outside storage area for off-specification wet gypsum wallboard recycled into the gypsum production process. The permittee requested on May 13, 2002 that this storage area be approved as an insignificant activity at this plant. The potential emissions are less than the relevant thresholds specified at 401 KAR 52:020, Section 6 and the requested storage area is included in Section C of the permit.

The potential to emit (as defined in 401 KAR 52:001, Section 1 (56)) of PM₁₀, CO, and NO_x is greater than one hundred (100) tons per year. Therefore, the source is a major source and is subject to the provisions of 401 KAR 52:020.

This permit is the renewed issuance of the Title V operating permit for this source. The initial Title V permit V-99-016 was issued on September 3, 1999 to Celotex Corporation. The Division was notified on March 10, 2003 of a transfer of ownership from Celotex to BPB Manufacturing, Inc. to whom this renewed permit is issued.